

		<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. AWARDING OFFICE: Office of Naval Research 875 N. Randolph Street, Suite 1425 Arlington, VA 22203-1995	
				3b. CFDA: 12.300	
1. INSTRUMENT TYPE: Grant Award		3c. DUNS NUMBER: 052184116			
2. AUTHORITY: 10 USC 2358 and 31 USC 6304, as amended		6. MODIFICATION TYPE: IF		7. PR NO.: 4720003613	
4. AWARD NO.: N00014-17-1-2675		5. MODIFICATION NO.: P00002		12. PROGRAM TYPE: MURI	
8. ACTIVITY/AGENCY PROPOSAL NO.: GRANT12286635		9. RECIPIENT PROPOSAL NO.:		11. ACTIVITY TYPE: R&D	
10. PROPOSAL DATE: 11/11/2016					
13. ISSUED TO 13a. ADDRESS:  CARNEGIE MELLON UNIVERSITY 5000 FORBES AVE PITTSBURGH PA 15213-3815 UNITED STATES OF AMERICA		13b. CAGE: 97668		13c. ED/EFT NUMBER: N/A	
13d. BUSINESS OFFICE CONTACT: Judy Coyle		14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as Block # 13			
13e. TELEPHONE NUMBER: 412-268-5597					
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Near Real Time Assessment of Emergent Complex Systems of Confederates					
16. FUNDING		ACTIVITY/AGENCY SHARE		RECIPIENT SHARE	
PREVIOUSLY OBLIGATED:				\$2,997,727.00	
OBLIGATED BY THIS ACTION:				\$1,497,805.00	
TOTAL OBLIGATED ON AWARD:				\$4,495,532.00	
FUTURE FUNDING:				\$0.00	
GRANT TOTAL:				\$4,495,532.00	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A					
18. PERIOD OF PERFORMANCE 09/01/2017 THROUGH 08/31/2020					
19. ACCOUNTING AND APPROPRIATION DATA: See Attached Financial Accounting Data Sheet(s)					
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: Kathleen Carley		21. TECHNICAL REPRESENTATIVE 21a. NAME: MARTIN KRUGER		21b. CODE: 341	
		21c. ADDRESS: ONR HUMAN & BIOENGINEERED SYSTEMS 875 N. Randolph Street Arlington VA 22203-1995			
20b. TELEPHONE NUMBER: 4122686016		20c. EMAIL ADDRESS: kathleen.carley@cs.cmu.edu		21d. TELEPHONE NUMBER: 703-696-5349	
				21e. EMAIL ADDRESS: MARTIN.KRUGER1@NAVY.MIL	
22. POC FOR THIS ACTION 22a. NAME: VANESSA A SEYMOUR		22b. CODE:		23a. ADMINISTRATIVE OFFICE: ONR REG Office Chicago Telephone: (312) 886-5423 Email: ONR_Chicago@navy.mil 230 South Dearborn CHICAGO IL 60604-1595	
22c. ADDRESS: Office of Naval Research 875 N. Randolph Street Suite 1425 Arlington VA 22203-1995				23b. CODE: N62880	
22d. TELEPHONE NUMBER: 703-696-4591		22e. EMAIL ADDRESS: VANESSA.SEYMOUR@NAVY.MIL			
24. SUBMIT PAYMENT REQUEST TO: Same as block 23a		25a. PAYING OFFICE DFAS-CO/NORTH ENTITLEMENT OPERATIONS HQ0337 PO Box 182266 COLUMBUS OH 43128		25b. CODE: HQ0337	
				26a. PATENT OFFICE: Office of Naval Research ATTN: ONR Office of Counsel Intellectual Property Section One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995	
				26b. CODE: N00014	

AWARD NO. N00014-17-1-2675		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. P00002			
27. SPECIAL INSTRUCTIONS: See Special Requirements on Page 5							
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx">http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx</a>							
This award provides full delegation to the administrative office in Block 23 of the grant. Full delegation includes the functions described in the DoDGARs at 32 CFR 22.715 and the administrative grants officer functions related to payments described in 32 CFR 22.810.							
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found at the specified URL.							
DOCUMENT				URL			
<p>The following documents may be found at :</p> <p><a href="http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx">http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx</a></p> <p>DOD RESEARCH AND DEVELOPMENT GENERAL TERMS AND CONDITIONS (JULY 2016)</p> <p>UAWA AWARD A (NOV 2003)</p> <p>STANDARD TERMS/CONDITIONS FOR RESEARCH GRANTS (AGENCY SPECIFIC) (FEB 2015)</p>							
30. OPTIONS		OPTION NO.	AMOUNT	PERIOD			
(1)		Option I	\$1,499,654.00	09/01/2020 to 08/31/2021			
(2)		Option II	\$1,499,654.00	09/01/2021 to 08/31/2022			
(3)							
(4)							
31. REPORTS: The reporting requirements under this award are specified in the articles of part 5 (Financial, Programmatic, and Property Reporting) to the General Terms and Conditions and in any additional language for Part 5 in an ONR Addendum to the General Terms and Conditions specified in Block 29.							
32. FOR THE RECIPIENT				33. FOR THE UNITED STATES OF AMERICA			
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN				33a. SIGNATURE OF AWARDOFFICER			
				Digitally signed by VANESSA SEYMOUR 1061137463 Dated: 2019.04.12 20:21:53 EST			
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARD OFFICER		33c. DATE SIGNED	
				VANESSA SEYMOUR		04/12/2019	

## FINANCIAL ACCOUNTING DATA SHEET - NAVY

1. CONTRACT NUMBER (CRITICAL) N00014-17-1-2675			2. SPIIN (CRITICAL)		3. MOD (CRITICAL) P00002			4. PR NUMBER 4720003613									
CLIN/SLIN	6. LINE OF ACCOUNTING													7.  AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN	
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA	K. COST CODE						
											PROJ UNIT	MCC	PDLI & SUF				
	AC	1791319	W1HZ	410	00	014	0	050120	2D	000000	000027	602	066	\$1,497,805.00			
PAGE TOTAL														\$1,497,805.00			
GRAND TOTAL														\$1,497,805.00			
PREPARED/AUTHORIZED BY:						COMPTROLLER APPROVAL:											
DATE:						FOR FISCAL DATA AND SIGNATURE											
						BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED											
DATE:						DATE:											

## FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-17-1-2675		2. SPIIN (CRITICAL)		3. MOD (CRITICAL) P00002		4. PR NUMBER 4720003613		
5. CLIN/SLIN	6. ACRN (CRITICAL)	7.  ACCOUNTING CITATION				8.  AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DOC/ACRN
						PAGE TOTAL		
						GRAND TOTAL		
PREPARED/AUTHORIZED BY:				COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE				
DATE:				BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED				
				DATE:				

AWARD NO.  
N00014-17-1-2675

## SPECIAL REQUIREMENTS

MODIFICATION NO.  
P00002

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